

**Table S5 Genetic analysis of *SLX4*-related mutant cells by the coefficient of coincidence**

Chromosome III

Intervals	Frequency of consecutive COs			Frequency of consecutive COs			Ratio of observed/expected		
	observed			expected <sup>a</sup>					
	<i>HML-</i>	<i>URA3-</i>	<i>LEU2-</i>	<i>HML-</i>	<i>URA3-</i>	<i>LEU2-</i>	<i>HML-</i>	<i>URA3-</i>	<i>LEU2-</i>
	<i>URA3-</i>	<i>LEU2-</i>	<i>HIS4-</i>	<i>URA3-</i>	<i>LEU2-</i>	<i>HIS4-</i>	<i>URA3-</i>	<i>LEU2-</i>	<i>HIS4-</i>
	<i>LEU2</i>	<i>HIS4</i>	<i>MAT</i>	<i>LEU2</i>	<i>HIS4</i>	<i>MAT</i>	<i>LEU2</i>	<i>HIS4</i>	<i>MAT</i>
Wild type	0.061	0.009	0.020	0.030	0.005	0.015	0.491	0.535	0.733
<i>slx4Δ</i>	0.018	0.009	0.030	0.013	0.007	0.023	0.724	0.806	0.773
<i>slx1Δ</i>	0.054	0.014	0.030	0.026	0.011	0.020	0.475	0.754	0.688
<i>rad1Δ</i>	0.065	0.013	0.027	0.032	0.010	0.015	0.485	0.781	0.560
<i>rtt107Δ</i>	0.053	0.014	0.032	0.026	0.011	0.018	0.488	0.791	0.558

Chromosome VII

Intervals	Frequency of consecutive COs			Frequency of consecutive COs			Ratio of observed/expected		
	observed			expected <sup>a</sup>					
	<i>CUP2-</i>	<i>MET13-</i>	<i>CYH2-</i>	<i>CUP2-</i>	<i>MET13-</i>	<i>CYH2-</i>	<i>CUP2-</i>	<i>MET13-</i>	<i>CYH2-</i>
	<i>MET13-</i>	<i>CYH2-</i>	<i>TRP5-</i>	<i>MET13-</i>	<i>CYH2-</i>	<i>TRP5-</i>	<i>MET13-</i>	<i>CYH2-</i>	<i>TRP5-</i>
	<i>CYH2</i>	<i>TRP5</i>	<i>ADE6</i>	<i>CYH2</i>	<i>TRP5</i>	<i>ADE6</i>	<i>CYH2</i>	<i>TRP5</i>	<i>ADE6</i>

<i>Wild type</i>	0.130	0.145	0.444	0.085	0.123	0.434	0.655	0.846
<i>slx4Δ</i>	0.114	0.166	0.549	0.068	0.133	0.544	0.598	0.799
<i>slx1Δ</i>	0.112	0.136	0.477	0.078	0.117	0.465	0.701	0.858
<i>rad1Δ</i>	0.128	0.149	0.453	0.081	0.127	0.432	0.636	0.854
<i>rtt107Δ</i>	0.138	0.162	0.475	0.097	0.128	0.461	0.702	0.791
								0.977
								0.991
								0.976
								0.954
								0.970

<sup>a</sup> Expected frequencies of consecutive COs were calculated by multiplication of the individual CO frequencies from the two consecutive intervals as indicated. Statistical significance was calculated by *G*-test. \**P*<0.05